

Title (en)
SUBSTRATE PROCESSING APPARATUS

Title (de)
SUBSTRATVERARBEITUNGSVORRICHTUNG

Title (fr)
APPAREIL DE TRAITEMENT DE SUBSTRAT

Publication
EP 4331012 A1 20240306 (EN)

Application
EP 21938177 A 20210425

Priority
CN 2021089596 W 20210425

Abstract (en)
[origin: WO2022226684A1] Embodiments of the present invention provide a substrate processing apparatus comprising a chemical liquid processing apparatus. The chemical liquid processing apparatus includes a first chemical liquid processing part, a second chemical liquid processing part configured to be stacked with the first chemical liquid processing part, a heating processing part located opposite the first chemical liquid processing part and the second chemical liquid processing part and a substrate transferring part located between the first and second chemical liquid processing parts and the heating processing part. The substrate transferring part is configured to have at least two first robots, at least one second robot and at least one third robot, all of which are arranged in parallel layers, and at least one pair of first buffer units located between two adjacent first robots and configured for loading and unloading the substrates therein and therefrom via the at least one second robot. The at least two first robots are configured to transfer the substrates between the first chemical liquid processing part and the heating processing part and the at least one third robot is configured to transfer the substrates between the second chemical liquid processing part and the heating processing part.

IPC 8 full level
H01L 21/677 (2006.01)

CPC (source: EP KR US)
G03F 7/168 (2013.01 - US); **G03F 7/70533** (2013.01 - US); **G03F 7/7075** (2013.01 - US); **G03F 7/70825** (2013.01 - US); **G03F 7/70933** (2013.01 - US); **H01L 21/67017** (2013.01 - KR); **H01L 21/67103** (2013.01 - EP KR); **H01L 21/6715** (2013.01 - EP KR); **H01L 21/67173** (2013.01 - EP KR); **H01L 21/67178** (2013.01 - EP KR); **H01L 21/6719** (2013.01 - EP KR); **H01L 21/67745** (2013.01 - EP KR)

Citation (search report)
See references of WO 2022226684A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

Designated validation state (EPC)
KH MA MD TN

DOCDB simple family (publication)
WO 2022226684 A1 20221103; CN 117321751 A 20231229; EP 4331012 A1 20240306; JP 2024516409 A 20240415; KR 20240021773 A 20240219; TW 202249149 A 20221216; US 2024201602 A1 20240620

DOCDB simple family (application)
CN 2021089596 W 20210425; CN 202180097343 A 20210425; EP 21938177 A 20210425; JP 2023566421 A 20210425; KR 20237040507 A 20210425; TW 111115655 A 20220425; US 202118557226 A 20210425